

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Janelle Gunther

Serial No.: Unassigned

Examiner: Unassigned

Filing Date: June 25, 2003

Group Art Unit: N/A

Title : NANOPOROUS STRUCTURES PRODUCED FROM SELF-ASSEMBLING MOLECULES

COMMISSIONER FOR PATENTS
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- () under 37 CFR 1.97(c) together with either a:
() Statement under 37 CFR 1.97(e), or
() a \$180.00 Processing fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- () under 37 CFR 1.97 (d) together with a:
() Statement under 37 CFR 1.97(e), and
() a \$180.00 processing fee under 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account 50-1078 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 50-1078 pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449. All the references identified herein were disclosed in Patent Application No. _____ filed _____, now U. S. Patent No. _____, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

() A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. EV334000728US

Respectfully submitted,

Date of Deposit 06-25-2003

Janelle Gunther

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

By

Bret Field for Timothy Joyce

Attorney/Agent for Applicant(s)
Reg. No. 37,620

Angela Hobson
Typed Name: Angela Hobson

Date: 06-25-2003

Telephone No.: (650) 485-4310

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 10021057-1	SERIAL NO. 00/000,000
	APPLICANT Janell Gunther	
	FILING DATE June 25, 2003	GROUP N/A

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	1A			
	1B			
	1C			
	1D			
	1E			
	1F			
	1G			
	1H			
	1I			
	1J			
	1K			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
				YES	NO
1L					
1M					
1N					
1O					
1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	HULTEEN et al. "Introducing Chemical Transport Selectivity into Gold Nanotubule Membranes" J. Am. Chem. Soc. 1998, 120, 6603-6604
	1R	J.S. MOORE AND S.I. STUPP "Materials Chemistry of Chiral Macromolecules. 1. Synthesis and Phase Transitions" 1992 American Chemical Society pp. 3429-3441
	1S	JANELLE GUNTHER and SAMUEL I. STUPP, "Surface Patterns of Supramolecular Materials" Langmuir 2001, 17, 6530-6539.

EXAMINER

DATE CONSIDERED

FORM PTO-1449		ATTY. DOCKET NO.	SERIAL NO.
		10021057-1	00/000,000
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT	
(Use several sheets if necessary)		Janelle Gunther	
		FILING DATE	GROUP
		June 25, 2003	N/A

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	2A			
	2B			
	2C			
	2D			
	2E			
	2F			
	2G			
	2H			
	2I			
	2J			
	2K			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	2L					
	2M					
	2N					
	2O					
	2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	HARTGERINK et al. "Peptide-amphiphile nanofibers: A versatile scaffold for the preparation of self-assembling materials" PNAS, april 16, 2002, Vol. 99., No.8. 5133-5138
2R	HUGGINS et al. "Two-Dimensional Supramolecular Assemblies of A Polydiacetylene. 1. Synthesis, Structure, and Third-Order Nonlinear Optical Properties", Macromolecules 1997, 30, 5305-5312
2S	HWANG et al. "Self-assembling biomaterials" Liquid crystal phases of cholesteryl oligo(L-lactic acid) and their interactions with cells" PNAS, July 23, 2002, Vol. 99, No. 15, 9662-9667

EXAMINER

DATE CONSIDERED

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	10021057-1	00/000,000
	APPLICANT	
	Janelle Gunther	
FILING DATE	GROUP	
Jun 25, 2003	N/A	

REFERENCE DESIGNATION **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	3A			
	3B			
	3C			
	3D			
	3E			
	3F			
	3G			
	3H			
	3I			
	3J			
	3K			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	3L					
	3M					
	3N					
	3O					
	3P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

3Q	JENEKHE AND CHEN "Self-Assembly of Ordered Microporous Materials from Rod-Copolymers" 15 January 1999, Vol. 283, Science, 372-375
3R	JENEKHE and CHEN "Self-Assembled Aggregates of Rod-Coil Block Copolymers and Their Solubilization and Encapsulation of Fullerenes", Science, Vol. 279, 20 March 1998, 1903-1907
3S	MOORE and STUPP " Paramagnetic organometallic liquid crystal polymers" Polymer Bulletin 19, 251-256 (1988)
EXAMINER	DATE CONSIDERED

FORM PTO-1449		ATTY. DOCKET NO. 10021057-1	SERIAL NO. 00/000,000
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Janelle Gunther	
(Use several sheets if necessary)		FILING DATE Jun 25, 2003	GROUP N/A

REFERENCE DESIGNATION **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	4A			
	4B			
	4C			
	4D			
	4E			
	4F			
	4G			
	4H			
	4I			
	4J			
	4K			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	4L					
	4M					
	4N					
	4O					
	4P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

4Q	MUTHUKUMAR et al "Competing Interactions and Levels of Ordering in Self-Organizing Polymeric Materials" Science, Vol. 277, 29 August 1997, 1225-1232
4R	STUPP et al. "Materials Chemistry: From Glasses to Liquid Crystals To Crystals Through Molecular Symmetry and Functionalization" ACS Polymer Preprints, 1989, 396-397
4S	STUPP and BRAUN "Molecular Manipulation of Microstructures: Biomaterials, Ceramics, and Semiconductors" Science, Vol. 277, 29 August 1997, pp. 1242-1248
EXAMINER	DATE CONSIDERED

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 10021057-1	SERIAL NO. 00/000,000
		APPLICANT Jan II Gunther	
		FILING DATE June 25, 2003	GROUP N/A

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	5A			
	5B			
	5C			
	5D			
	5E			
	5F			
	5G			
	5H			
	5I			
	5J			
	5K			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION
					YES NO
	5L				
	5M				
	5N				
	5O				
	5P				

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	5Q	STUPP et al. "Supramolecular Materials: Self-Organized Nanostructures" Science Vol. 276, 18 April 1997, 384-389
	5R	STUPP et al. "Bulk Synthesis of Two-Dimensional Polymers: The Molecular Recognition Approach" J. Am. Chem. Soc. 1995, 117, 5212-5227
	5S	STUPP et al. "synthesis of Two-Dimensional Polymers" Science, Vol. 259, 1 January 1993, 59-63
EXAMINER		DATE CONSIDERED

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	10021057-1	00/000,000
	APPLICANT	
	Jan II Gunther	
FILING DATE	GROUP	
June 25, 2003	N/A	

REFERENCE DESIGNATION **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME
6A			
6B			
6C			
6D			
6E			
6F			
6G			
6H			
6I			
6J			
6K			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	6L					
	6M					
	6N					
	6O					
	6P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

6Q	ZUBAREV et al. "Conversion of Supramolecular Clusters to Macromolecular Objects" Science, Vol. 283, 22 January 1999, 523-526
6R	
6S	
EXAMINER	DATE CONSIDERED